

ABSTRACT OF THE DISCLOSURE

Disclosed are a RAID apparatus in which same logical volumes are allocated on a plurality of physical disk units, and an access control method therefor. The RAID apparatus comprises a plurality of physical disk units for forming same logical volumes, and a disk controller for accessing any physical disk unit which forms a designated logical volume to thereby access the designated logical volume. This disk controller has a memory for storing the number of operations, requested to each physical disk unit, for each physical disk unit, and control means for accessing one of the plurality of physical disk units which form the designed logical volume, in accordance with the number of operations.

Since a physical disk unit is selected in accordance with the numbers of operations of the individual physical disk units, it is possible to prevent unbalanced access to the physical disk units.